

Access DB# 157784

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Camille Thompson Examiner #: 79244 Date: 6/21/05
Art Unit: 1774 Phone Number 301 571-2721 Serial Number: 70 101743, 820
Mail Box and Bldg/Room Location: Room 10D28 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic; and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Blue electroluminescent polymer + organo-electrode
Inventors (please provide full names): Byung-Hec Sohn; Sang Hoon Park; Soo-Hyung Lee; Jhun-Mo Son; Woon-Jung Paek
Earliest Priority Filing Date: 12/24/02

SCIENTIFIC REFERENCE AB
Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate Serial Number.

JUN 28 REC'D

Pat. & T.M. Office

*Please do a search on claims 1-9.
compounds included.*

Thanks

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Date Completed: <u>7-12-05</u>	Litigation _____	Lexis/Nexis _____	
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L2 0 S L1
L3 0 S L1 FUL

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L4 6 S L1
L5 150 S 7003.3.2/RID
L6 1 S L5 AND PMS/CI

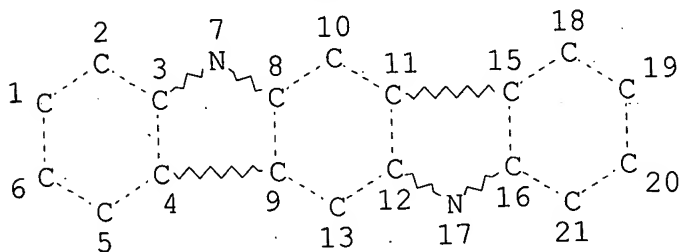
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L7 1 S L6

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L1 STR



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L7 ANSWER 1 OF 1 ZCAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:570450 ZCAPLUS
DN 141:131396
ED Entered STN: 16 Jul 2004
TI Blue electroluminescent polymer and organo-electroluminescent device
employing the same
IN Sohn, Byung-Hee; Park, Sang-Hoon; Lee, Soo-Hyoung; Song, In-Sung;
Son, Jhun-Mo; Paek, Woon-Jung
PA S. Korea
SO U.S. Pat. Appl. Publ., 19 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM H05B033-12
ICS C08G061-12
INCL 428690000; 428917000; 313504000; 313506000; 257040000; 257103000;
528423000
CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and
Other Reprographic Processes)
Section cross-reference(s): 35, 38

FAN.CNT 1					
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 2004137271	A1	20040715	US 2003-743820	200312 24
	JP 2004204234	A2	20040722	JP 2003-427007	200312 24

PRAI KR 2002-83186 A 20021224

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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US 2004137271	ICM	H05B033-12
	ICS	C08G061-12

US 2004137271 INCL 428690000; 428917000; 313504000; 313506000;
257040000; 257103000; 528423000
NCL 428/690.000; 428/917.000; 313/504.000;
313/506.000; 257/040.000; 257/103.000;
528/423.000
JP 2004204234 ECLA C08G061/12D1B; C08G073/06H1
FTERM 3K007/AB03; 3K007/AB04; 3K007/DB03; 3K007/FA01;
4J032/BA02; 4J032/BA12; 4J032/BA15; 4J032/BA20;
4J032/BB04; 4J032/BB05; 4J032/BB09; 4J032/CA12;
4J032/CA28; 4J032/CB04; 4J032/CB12; 4J032/CB13;
4J032/CG03

AB The present invention relates to a blue electroluminescent polymer having an indolocarbazole unit in the backbone of a polyarylene polymer and an organo-electroluminescent device using the same. Thus, 880 mg bis(1,5-cyclooctadiene)nickel and 500 mg bipyridine were mixed, 346 mg 1,5-cyclooctadiene was added therein and stirred at 80.degree. for 30 min, 102 mg an indolecarbazole monomer (prepn. given) and 790 mg 2,7-dibromo-9,9-dioctylfluorene (prepn. given) were added therein and polymd. to give a copolymer with yield 75%, wt. av. mol. wt. 140,000, and polydispersity 2.71, which was fabricated into a org. electroluminescent device with good max. efficiency and color purity.

ST blue electroluminescent polymer organo device;
dibromodioctylfluorene indolecarbazole copolymer prepn

IT Luminescent substances
(electroluminescent; prepn. of blue electroluminescent polymers for organo-electroluminescent devices)

IT Electroluminescent devices
(prepn. of blue electroluminescent polymers for organo-electroluminescent devices)

IT 6336-32-9P 721945-34-2P
(intermediate in monomer prepn.; prepn. of blue electroluminescent polymers for organo-electroluminescent devices)

IT 198964-46-4P, 2,7-Dibromo-9,9-dioctylfluorene 721945-35-3P
(monomer; prepn. of blue electroluminescent polymers for organo-electroluminescent devices)

IT 721945-36-4P
(prepn. of blue electroluminescent polymers for organo-electroluminescent devices)

IT 128-08-5, NBS
(prepn. of blue electroluminescent polymers for organo-electroluminescent devices)

IT 100-63-0, Phenylhydrazine 637-88-7, Cyclohexane-1,4-dione
16433-88-8, 2,7-Dibromofluorene 26746-34-9, Bromooctane
(reactant in monomer prepn.; prepn. of blue electroluminescent polymers for organo-electroluminescent devices)

IT 721945-36-4P

(prepn. of blue electroluminescent polymers for
organo-electroluminescent devices)

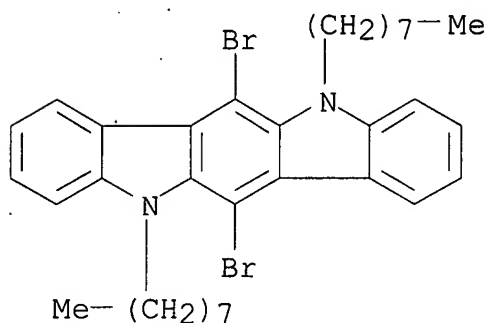
RN 721945-36-4 ZCAPLUS

CN Indolo[3,2-b]carbazole, 6,12-dibromo-5,11-dihydro-5,11-dioctyl-,
polymer with 2,7-dibromo-9,9-dioctyl-9H-fluorene (9CI) (CA INDEX
NAME)

CM 1

CRN 721945-35-3

CMF C34 H42 Br2 N2



CM 2

CRN 198964-46-4

CMF C29 H40 Br2

